TOUGHBOOK Arbitrator
mobile digital video system

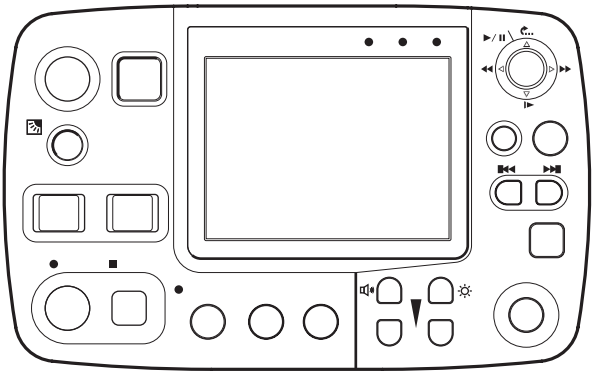
Panasonic

Operating Instructions

Remote Control Panel

Model No. AG-RCP30P

Car Use only



Toughbook Arbitrator

Before operating this product, please read the instructions carefully and save this manual for future use.

S0806K7088 -M
Printed in Japan

ENGLISH
VQT1A20-6

Read this first!

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

- **TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.**
- **TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, KEEP THIS EQUIPMENT AWAY FROM ALL LIQUIDS. USE AND STORE ONLY IN LOCATIONS WHICH ARE NOT EXPOSED TO THE RISK OF DRIPPING OR SPLASHING LIQUIDS, AND DO NOT PLACE ANY LIQUID CONTAINERS ON TOP OF THE EQUIPMENT.**

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

▭ indicates safety information.

CAUTION:

In order to maintain adequate ventilation, do not install or place this unit in a book case, built-in cabinet or any other confined space.
To prevent risk of electric shock or fire hazard due to overheating, ensure that curtains and any other materials do not obstruct the ventilation.

FCC Note:
This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
Warning: To assure continued FCC emission limit compliance, the user must only use shielded interface cables when connecting to external units. Also, any unauthorized changes or modifications to this equipment could void the user's authority to operate it.

- This Remote Control Panel is designed for use and installation in a vehicle. For example, it may be mounted on the dashboard or alongside the seat.
- The installation of this equipment must only be performed by a professional installer.

▭ indicates safety information.

IMPORTANT SAFETY INSTRUCTIONS

(1) Read these instructions.

(2) Keep these instructions.

(3) Heed all warnings.

(4) Follow all instructions.

(5) Do not use this equipment near water.

(6) Clean only with a dry cloth.

(7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

(8) Do not install near any heat sources such as radiators, heat registers, stoves, or any other equipment (including amplifiers) that produce heat.

(9) Only use attachments/accessories specified by the manufacturer, and as outlined in this manual.

(10) Refer all servicing requests to qualified service personnel. Servicing is required when the equipment has been damaged in any way, such as damage to the power supply cord or plug, liquid being spilled on or objects have fallen into the equipment, the equipment has been exposed to rain or moisture and does not operate normally, or has been dropped.

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• In no event will Panasonic be liable for any damages, including any incidental or consequential damages, stemming from a failure to record data or from lost settings or data.

Features

This unit is a Remote Control Panel to be connected to and used with a Memory Card Video Recorder.

- The buttons on the panel allow the user to control a Memory Card Video Recorder or a Color Camera.
- The LCD panel shows live images from a Color Camera or images played back from a Memory Card Video Recorder.
- The speaker allows you to check live audio or playback audio.

Included Accessories

Control panel cable [7.5 m (24.6 feet)] 1
Fixing screws (already secured to the unit) 4

Operating Precautions

■Before use

This unit is designed for use in combination with the Memory Card Video Recorder (sold separately) and the Color Camera (sold separately).

■Installation and connections

Consult your supplier and request installation and connection.

■Operating procedures

- Disconnect the control panel cable when transporting the unit.
- Never disconnect the control panel cable during recording or playback on the Memory Card Video Recorder. Failure to heed this advice could corrupt the setting file on the Memory Card Video Recorder or the management data on the P2 card.
- For how to operate the unit in combination with the Memory Card Video Recorder, refer to the Operating Instructions of the Memory Card Video Recorder.

■LCD panel

- Do not place the unit on the dashboard or other location where temperature is excessively high or low. Otherwise a chemical reaction to the LCD panel will result and the unit may be damaged.
- At low temperatures the display goes dark and becomes less responsive while reproduction of movement appears to slow down and the picture quality is degraded. However, these phenomena are an acceptable part of LCD technology and are not malfunctions.
- The presence of red, blue or green dots on the screen is not a malfunction, but a characteristic peculiar to LCD displays.
  An LCD panel is a product of high-precision technology. For this reason, it is an accepted fact that while 99.99 % or more of its pixels will function normally 0.01 % may either be dead or constantly lit.
- Sudden changes in in-car temperature, for example, caused by turning on the air conditioning may generate condensation (water drops) on the inside of the LCD panel fogging it up and preventing normal operation. Should this happen, wait one hour for the display to clear.

■Maintenance

To clean the recorder, turn the vehicle's ignition switch to the LOCK (OFF) position, and keep the recorder power turned off.
Refer to "Turning the Recorder On and Off → Off" in the Operating Instructions of the Memory Card Video Recorder.

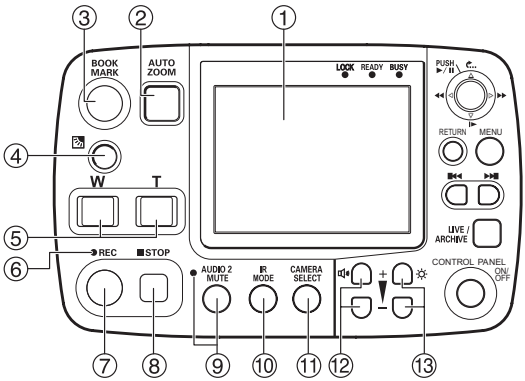
- Do not use solvents such as benzene, thinner or alcohol, as these can deform the case or damage the surface finish.
- Use a soft, dry cloth to dust off the recorder. If severely soiled, wipe it with a cloth moistened with a weak solution of mild synthetic detergent and wrung out, and afterwards wipe with a dry cloth.
- If using a chemically treated cloth, follow the instructions provided with it.

■Periodic maintenance (Servicing & testing)

Performing necessary periodic maintenance (servicing & testing) allows you to feel at ease using the unit, and keeps the unit running in optimal condition.
Because maintenance ensures stable functionality and performance, in addition to preventing troubles due to part degradation, we recommend purchasing a periodic maintenance contract.
The interval and costs for performing maintenance, moreover, will vary depending on the circumstances, duration, environment, etc., in which the unit is used.
For detailed information on paid periodic maintenance, consult your supplier.
(Consumable) parts requiring maintenance:
LCD backlight
Duration before maintenance (replacement):
10,000 hours or more

Control Reference Guide

Front panel



① LCD panel

Shows images and operation menus.

② AUTO ZOOM button*1, 2

Provides automatic control of zoom-in, pause and zoom-out operation.
The officer can set zoom ratio and pause time.

③ BOOK MARK button*2

Press during recording or playback to enter bookmarks. A set bookmark displays an icon on the display for 1 to 2 seconds when pressed.

④ Backlight compensation button ( )*1, 2

Press to compensate for strong backlighting. This button toggles between ON and OFF at each press.

⑤ Zoom buttons*1, 2

Use these buttons to zoom out (W-button) and zoom in (T-button).

⑥ REC lamp

Lights or flashes during recording.

⑦ REC button*2

Press to start recording video and sound to P2 card.

⑧ STOP button ( )*2

Stops recording.

⑨ AUDIO2 MUTE button/lamp

Starts/releases recording for AUDIO2. Pressing this button turns the lamp on/off. While the lamp is lit, AUDIO2 is not being recorded.

⑩ IR MODE button*1

Switches the IR mode to one of the following modes.

AUTO: Automatically changes IR mode depending on ambient brightness.
ON : Turns on the IR mode.
OFF : Turns off the IR mode.

⑪ CAMERA SELECT button

Selects a camera.
CAMERA1 input: separately sold Color Camera
CAMERA2 input: commercially available camera

⑫ Volume control buttons ( )

Adjusts speaker sound volume.

⑬ Brightness buttons ( )

Adjusts LCD panel brightness.

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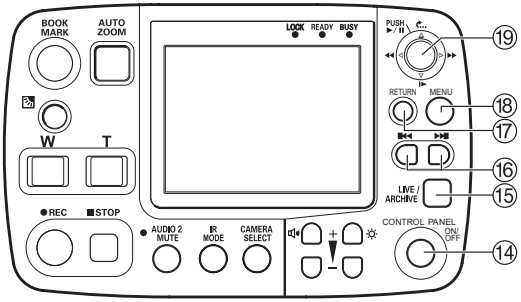
*1 A commercially available camera connected to the [CAMERA2] connector cannot be controlled.
*2 The lamp turns on when the [CONTROL PANEL ON/OFF] button is set to ON.

Control Reference Guide (continued)

Front panel



⑭ CONTROL PANEL ON/OFF button

Turns on and off he LCD panel, lamp indications and buttons when the Memory Card Video Recorder is on. It cannot turn on or off the Memory Card Video Recorder or this unit.

⑮ LIVE/ARCHIVE button

Switches between the live and playback screen. Press this button to open the Live screen when the "Information" screen, "Archive" screen, "Restore" screen, Officer setup top screen or Setup/Admin top screen is displayed.

⑯ Skip back button (⏮)

Press to return playback to the previous skip location.

Skip forward button (⏭)

Press to move playback the next skip location.

⑰ RETURN button

Returns to the previous menu or screen.

⑱ MENU button

Opens menus on the LCD panel.

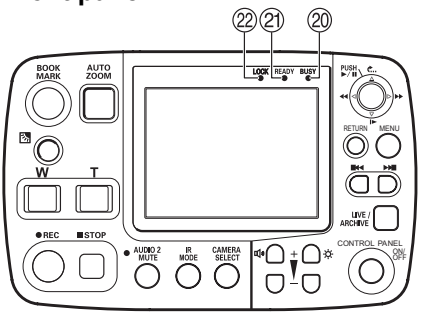
⑲ Cursor buttons (PUSH ▶/II, △, ▽I▶, ◁◀◀, ▷▶▶)

Use these buttons to manipulate menus and control playback.

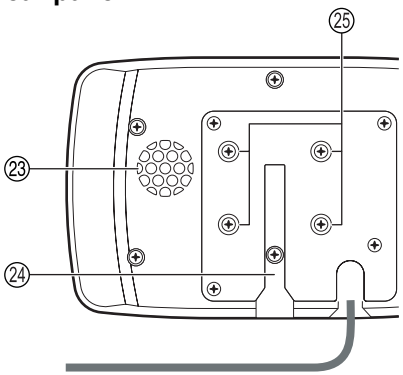
- During menu operation
  - [PUSH ▶/II] : Press the center position of the button to confirm an entry.
  - [△,▽,◁,▷] : Press to move the cursor or change a set value.
- During playback
  - [▶/II] : Press the center position of the button to toggle between playback and pause.
  - [↺...] : Press to return to a playback position that is 7 seconds earlier.
  - [I▶] : Engages slow playback. Each press changes playback speed between 1/10 and 1/2.
  - [◀◀] : Press to rewind. Each press changes the rewind speed from x4 to x20 and x200.
  - [▶▶] : Press to fast forward. Each press changes the fast forward speed from x4 to x20 and x200.

Control Reference Guide (continued)

Front panel



Rear panel



⑳ BUSY lamp

Lights or blinks when accessing a P2 card (for example during recording and playback).

㉑ READY lamp

Lights, flashes or goes off to indicate whether or not a P2 card can be recorded.

㉒ LOCK lamp

When lit:

Indicates whether or not buttons other than the [REC], [MENU], [CONTROL PANEL ON/OFF] and [RETURN] buttons are locked.

When blinking:

Indicates that the license plate recognition mode is running.

For details, refer to “License Plate Recognition (LPR) Mode” in the Operating Instructions of the Memory Card Video Recorder.

㉓ Speaker

In playback screen mode:

Outputs audio. However, during [▮►] slow playback, [◄◄] rewind, and [►►] fast forward, audio is not output.

In Live screen mode:

The audio sound track is not normally available. For how to monitor the audio, refer to “Viewing Live Video → Checking audio” in the Operating Instructions of the Memory Card Video Recorder.

㉔ Anchoring groove

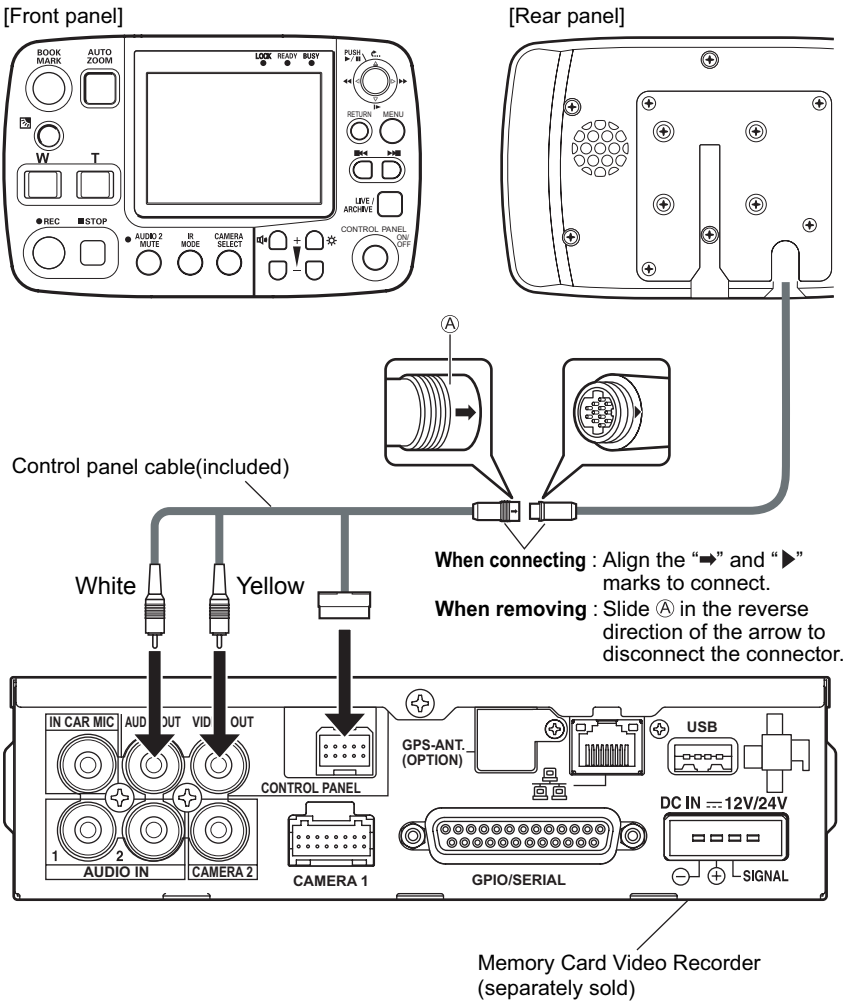
Provides attachment for a commercially available stand.

㉕ Securing screw holes

Use the supplied screws to attach a commercially available mounting bracket.

Connections

Be sure to consult your supplier and request installation and connection.



Specifications

Power supply	: 12 V DC
Input current	: 0.4 A

▭ indicates safety information.

Ambient operating temperature	: 0 °C to 45 °C (32 °F to 113 °F)
Ambient operating humidity	: 10 % to 80 % (no condensation)
Weight	: 500 g (1.10 lb)
Dimensions (W x H x D)	: 171 mm x 107 mm x 28 mm (6-23/32 inches x 4-7/32 inches x 1-3/32 inches)
LCD panel	: 3.5 inch LCD
Drive system	: Polysilicon TFT active matrix
Pixels	: 220 (vertical) x 320 (horizontal) x 3 (RGB)
Speaker output	: 0.5 W
Speaker	: One round 28 mm speaker
Terminals	: Power supply, control signal inputs and outputs, AV inputs (round 12-pin connector)

Weight and dimensions are approximate.
Specifications are subject to change without notice.

Panasonic Computer Solutions Company

Worldwide Product Warranties

Section 1: Limited Warranty - Hardware

Panasonic Computer Solutions Company (referred to as "Panasonic") will repair the products listed below with new or rebuilt parts, free of charge in the U.S.A. or other Panasonic approved location for the period specified below from the date of original purchase in the event of a defect in materials or workmanship. These warranties are extended solely to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty performance is rendered.

- Laptop Computers – 3 Years
- PDRC - LCD and Keyboard Assemblies – 3 Years
- MDWD – Mobile Computer and Wireless Display Assemblies - 3 Years
- Hand-held Computers (P1/P2) – 1 Year
- Arbitrator Video Camera – 1 Year
- Arbitrator Recorder Unit – 1 Year
- Arbitrator Remote Control Panel – 1 Year
- Arbitrator Wireless Receiver Unit – 1 Year
- Arbitrator P2 Card(s) (All Sizes) – 1 Year
- Arbitrator Wireless Microphone(s) / Transmitter – 90 Days
- Arbitrator System Component Interconnect Cables – 90 Days

Main Battery

The battery supplied with the product is covered under the warranty for one (1) year from date of purchase, except as excluded in Section 3. Batteries purchased separately are covered under the warranty for one (1) year from the date of purchase. A battery furnished under the warranty is covered for the remaining period of the one year warranty on the original or purchased battery.

Options and Accessories

The below listed Panasonic brand or supplied options and accessories are covered under this limited warranty for the period specified from the date of purchase or as specifically stated:

- AC Adapter / Power Cord – 3 Years
- Memory Card (Panasonic Brand) – 3 Years
- Car Mount Docking Station PCB or Complete Vehicle Docking Station – 3 Years
- Port Replicator / I-O Box – 3 Years
- Antenna Pass-through Cable – 3 Years
- Backlit or Full-sized keyboard - 3 Years or assumes warranty of the unit in which it is installed
- Integrated Panasonic supplied options and kits including, but not limited to Wireless Modems, Media Bay Drives (Floppy, CD, DVD, Combo), GPS, Bluetooth, Smartcard Reader, and Fingerprint readers – 3 Years or assumes warranty period of the unit in which it is installed provided the integration was performed by Panasonic or an Authorized Options Integrator
- Hard Drive (separately purchased) – 1 Year
- External USB Drives (CD / DVD / Floppy / Hard Drive) – 1 Year
- Optional Battery – 1 Year
- Battery Charger – 1 Year
- Standard or Digitizer Stylus Pens – 90 Days (physical damage excluded)

Section 2 - Limited Warranty - Software

Panasonic Computer Solutions Company (referred to as "Panasonic") warrants to you only that the disk(s) or other media on which the Programs are furnished will be free from defects in material and workmanship under normal use for a period of sixty (60) days from the date of delivery thereof to you, as evidenced by your purchase receipt.

This is the only warranty Panasonic makes to you. Panasonic does not warrant that the functions contained in the Programs will meet your requirements or that the operation of the Programs will be uninterrupted or error free. Panasonic shall have no obligation for any defects in the disk(s) or other media on which the Programs are furnished resulting from your storage thereof, or for defects that have been caused by operation of the disk(s) or other media.

Panasonic's entire liability and your exclusive remedy under this warranty shall be limited to the replacement, in the United States or other Panasonic designated location, of any defective disk or other media which is returned to Panasonic's Authorized Service Center, together with a copy of the purchase receipt, within the aforesaid warranty period. The customer is responsible for ensuring that all data is backed up and made secure during normal use and before sending a unit for service.

Section 3 - Limited Warranty Exclusions

Specifically excluded from the warranty are:

- All consumable items; such as screen protection films, logo badges, labels, cleaning cloths, carry cases, manuals, cables, straps, belts, holsters, tethers, and harnesses and any other options and accessories not listed above or covered under a separate warranty
- Failures related to the product operating system, hard drive image, software setup, software program, virus, other program(s) or file(s) on the hard drive or in any computer memory location
- Failures due to BIOS settings or changes, as well as any cosmetic or physical damage to the unit
- Any unit or device with a missing or altered model number or serial number label
- Damage which occurs in shipment
- Failures which are caused by products not supplied by Panasonic
- Failures which result from alteration, accident, misuse, introduction of liquid or other foreign matter into the unit, abuse, neglect, installation, maladjustment of consumer controls, improper maintenance or modification, use not in accordance with product use instructions
- Failures due to service by anyone other than a Panasonic Authorized Service Provider
- Failures caused by improper integration by any company other than Panasonic Configuration and Integration Centers
- Damage, failure, or loss due to the unit being stolen, lost, misplaced, or used by anyone other than the original purchaser
- Damage that is attributable to acts of God

This warranty only covers failures due to defects in materials or workmanship which occur during normal use.

Other Limits and Exclusions: There are no other express warranties except as listed above.

PANASONIC SHALL NOT BE LIABLE FOR LOSS OF DATA OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.

This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For technical support or to arrange for service on your Panasonic computer product, call our toll-free 24 hour hotline at 1-800-LAPTOP5.

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